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(54) **METHOD OF IMAGE PROCESSING FOR AN AUGMENTED REALITY APPLICATION**

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CPC ***G06T 19/006*** (2013.01); ***G06T 7/0042*** (2013.01); *G06T 2207/10016* (2013.01); *G06T 2207/20004* (2013.01); *G06T 2207/30244* (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

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(57) **ABSTRACT**

An apparatus for and method of image processing in an augmented reality application is provided. The method includes the steps of: providing at least one image of a real environment; performing image processing in an augmented reality application with the at least one image employing visualization of overlaying digital information with visual impressions or the image of the real environment and employing vision-based processing or tracking; and adjusting at least one of a parameter and operating flow of the vision-based processing or tracking depending on at least one of the following: a usage of the image processing, a usage of the visualization, a visually perceivable property of the digital information or the real environment, a property of a display device employed in the visualization, or a manner in which a user is viewing the visualization.

20 Claims, 6 Drawing Sheets